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Tim Garris
Regional Vice President
Darling Ingredients Inc.
1001 Orient Road
Tampa, FL 33619

RE: Project No. 0570163-009-AC
Darling Ingredients Inc.
Rendering Plant

Dear Mr. Garris:

On August 25, 2016, you submitted an application to replace the venturi scrubber at your rendering facility. The existing facility is located in Hillsborough County at 1001 Orient Road, Tampa, Florida 33619.

Enclosed are the following documents: the Written Notice of Intent to Issue Air Permit; the Public Notice of Intent to Issue Air Permit; the Technical Evaluation and Preliminary Determination; and the Draft Permit with Appendices. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project.

If you have any questions, please contact Diana M. Lee, P.E., Chief, Air Permitting, at (813) 627-2600 ext. 1276 or by email at lee@epchc.org.

Executed in Tampa, Florida.

Sincerely,

Janet L. Dougherty
Executive Director

Enclosures

JLD/LAW/law

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WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

Darling Ingredients Inc.
1001 Orient Road
Tampa, FL 33619

Project No. 0570163-009-AC
Minor Air Construction Permit

Authorized Representative:

Greg Hartman, Environmental, Health, and Safety

Venturi Scrubber Replacement
Hillsborough County, Florida

Facility Location: Darling Ingredients Inc. operates the existing facility, which is located in Hillsborough County at 1001 Orient Road in Tampa, Florida.

Project: The applicant proposes to replace an existing 10,000 acfm venturi scrubber with a new equivalent venturi scrubber to control odors from the rendering operation. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Environmental Protection Commission of Hillsborough County is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical/mailling address is: 3629 Queen Palm Dr., Tampa, Florida 33619. The Permitting Authority's telephone number is 813-627-2600.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the draft permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

Comments: The Permitting Authority will accept written comments concerning the draft permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the draft permit, the Permitting Authority shall revise the draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this written notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-260 before the deadline. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and any facsimile number of the petitioner; the name, address any email address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

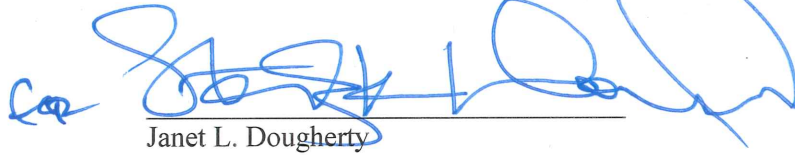
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this written notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY



Janet L. Dougherty
Executive Director

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

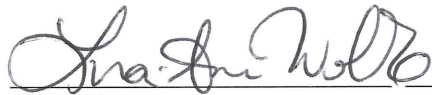
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this written notice of Intent to Issue Air Permit package (including the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the draft permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested, or was sent via mail, before the close of business on the date indicated below to the following persons.

Tim Garris – Darling Ingredients Inc. tgarris@darlingii.com

John L. Crowley, P.E. – Darling Ingredients Inc. jcrowley@darlingii.com

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

 9/23/2016
Clerk Date

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT
ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
Draft Minor Air Construction Permit
Draft Air Permit No. 0570163-009-AC
Darling Ingredients Inc.
Hillsborough County, FL

Applicant: The applicant for this project is Darling Ingredients Inc. The applicant's authorized representative and mailing address is: Tim Garriss, Regional Vice President, 1001 Orient Road, Tampa, FL 33619.

Facility Location: Darling Ingredients Inc. operates the existing facility, which is located in Hillsborough County at 1001 Orient Road, Tampa, FL 33619.

Project: Replace the existing 10,000 acfm venturi scrubber with a new equivalent venturi scrubber. The scrubber will be used to control odors from the rendering operation. This facility will remain a minor source of emissions.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Environmental Protection Commission of Hillsborough County. The Permitting Authority's physical/mailling address is: 3629 Queen Palm Dr., Tampa, FL 33619. The Permitting Authority's phone number is 813-627-2600.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <https://fldep.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the

petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-260 before the deadline. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and any facsimile number of the petitioner; the name, address any email address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.



TECHNICAL EVALUATION

&

PRELIMINARY DETERMINATION

APPLICANT

Darling Ingredients Inc.
1001 Orient Road
Tampa, FL 33612
Facility ID No. 0570163

PROJECT

Project No. 0570163-009-AC
Application for Minor Source Air Construction Permit
Venturi Scrubber Replacement

COUNTY

Hillsborough County, Florida

PERMITTING AUTHORITY

Environmental Protection Commission of Hillsborough County
3629 Queen Palm Dr.
Tampa, FL 33619

September 23, 2016

1. GENERAL PROJECT INFORMATION

• Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Chapters 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Facility Description and Location

Darling Ingredients Inc. is a rendering operation and is categorized under Standard Industrial Classification Code No. 2077 – Animal and Marine Fats and Oils. The existing facility is located in Hillsborough County at 1001 Orient Road, Tampa, FL 33619. The UTM coordinates of the facility are Zone 17, 364.1 km East, and 3096.4 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to Ambient Air Quality Standards (AAQS), except for ozone. Hillsborough County is designated as an air quality maintenance area for ozone.

Facility Regulatory Categories

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Project Description

This permit authorizes the replacement of the existing 10,000 ACFM SCP Control, Inc., venturi scrubber with a new 10,000 ACFM IES, Inc. venturi scrubber or equivalent. The scrubber will be used to control the odors from the rendering operation.

Processing Schedule

August 25, 2016 - Received the application for a minor source air pollution construction permit.

Not Applicable - Requested additional information.

August 25, 2016 - Application Complete.

2. DEPARTMENT REVIEW

This permit authorizes the replacement of the existing 10,000 ACFM SCP Control, Inc., venturi scrubber with a new 10,000 ACFM IES, Inc. venturi scrubber or equivalent.

Darling Ingredients Inc. is a rendering facility that processes animal remains, scrap meat, and the interface from

used restaurant food grease. The process begins by receiving material by truck. The materials are unloaded onto the ground and a front-end loader transfers the material into an open pit. Two screw conveyors convey the material from the pit into the two (2) high pressure steam heated cookers.

The cookers are used to separate fat from meat or animal remains and to process restaurant food grease by slow heating and processing of the meat, fat, bone, offal, and grease. Cooker #1 (Dupps Company 200U Supercookor) and Cooker #2 (Dupps Company 1500 Equacooker) have the maximum raw material input rates of 43,440 lbs/hr and 34,000 lbs/hr, respectively, based on a raw material moisture content of 34%.

The cookers are heated by steam from two natural gas fired boilers, rated at 62.76 MMBtu/hr and at 31.38 MMBtu/hr. The boilers are also capable of combusting processed fats from the rendering operation as a backup fuel. Both of the boilers are categorically exempt from permitting pursuant to Rule 62-210.300(3)(a)34., F.A.C. - *Fossil fuel steam generators, hot water generators, and other external combustion heating units with heat input capacity less than 100 million Btu per hour.*

Each cooker has a water-cooled shell and tube condenser to collapse the steam and to control condensable odor emissions generated from the cooking operation. The two water-cooled shell and tube condensers operating in parallel are followed by three scrubbers in series. The scrubbers control the non-condensable odor emissions from the cookers. The scrubbers are a 10,000 acfm Venturi Scrubber, a 10,000 acfm High Intensity Packed Bed Scrubber, and a 50,000 acfm Room Air Scrubber.

The Room Air Scrubber controls the process vapors from the venturi and packed bed scrubbers and the vapors from the processing building. The Room Air Scrubber treats approximately 40,000 acfm of vapors from the processing building and 10,000 acfm from the venturi and packed bed scrubbers. The vapors from the processing building consist of emissions from the feed screws, grinders, control wheels, drainers, centrifuges, screw presses, and other miscellaneous process equipment. Sodium hypochlorite is injected as a scrubbing agent in each of the three scrubbers for odor control. In addition, sodium hydroxide and muriatic acid are used as needed for pH control in the scrubbers.

In addition, the facility operates an odor mitigation system, which consists of atomizing spray nozzles that distribute a mist of odor masking compound around the truck unloading/receiving pit area. In order to mitigate potential odors, all raw materials are required to be processed within 24 hours of receipt unless there is an operational breakdown or plant upset.

The final products from this facility consist of bone meal (crax) and processed fats, which include tallow, yellow grease, brown grease, and poultry fat. These products are sold for use in animal feed applications, chemical manufacturing, and combustion applications. Below is a list of the process and control equipment.

The facility is subject to Rule 62-296.320, F.A.C. General Pollutant Emission Limiting Standards. There is no increase in potential emissions due to this project. The potential PM, H₂S, and VOC emissions were calculated to be 5.6 tons/year, 3.0 tons/year, and 14.3 tons/year, respectively. The potential PM emissions are calculated based on a combined throughput of 25.6 tons/hour for both cookers, an emission factor from AP-42 Chapter 9.5.3, and an overall control efficiency of 80% for the three scrubbers. The potential H₂S emissions are calculated based on a combined throughput of 25.6 tons/hour for both cookers and an emission factor from AP-42 Chapter 9.5.3. In addition, the potential VOC emissions are calculated based on a combined throughput of 25.6 tons/hour for both cookers, an emission factor of 0.576 lbs/ton from a stack test at a similar source, and an overall control efficiency of 33% for the three scrubbers.

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model No.</u>
Cooker #1	The Dupps Company	200U Supercookor
Cooker #2	The Dupps Company	1500 Equacooker
Shell and tube condenser #1	Texas Metal Fabrication Company	T-42
Shell and tube condenser #2	The Dupps Company	12 SS
Venturi Scrubber	10,000 ACFM IES, Inc. or equivalent	40K-304 ss-M-Cs or equivalent
Packed Bed Scrubber	10,000 ACFM GPI Corporation	#4468 60" x 258"
Room Air Scrubber	50,000 ACFM American Fan Co.	BI-490

Summary of Emissions

EU No. 003 -

Pollutant	Potential Emissions (TPY)	Allowable Emissions
PM	5.6	NA
VOC	14.3	NA
H ₂ S	3.0	NA

- The Potential PM emissions are based on a combined throughput of 25.6 tons/hour for both cookers, an emission factor from AP 42 Ch. 9.5.3, and an overall control efficiency of 80% for the three scrubbers.
- The Potential H₂S emissions are based on a combined throughput of 25.6 tons/hour for both cookers and an emission factor from AP 42 Ch. 9.5.3.
- The Potential VOC emissions are based on a combined throughput of 25.6 tons/hour for both cookers, an emission factor of 0.576 lbs/ton from a stack test at a similar source, and an overall control efficiency of 33% for the three scrubbers.
- These potential emissions were established under Permit No. 0570163-004-AC.

Local Requirements

Rules of the EPCHC, Chapter 1-3 - Stationary Air Pollution and Ambient Air Quality Standards

State Requirements

Rule 62-296.320, F.A.C. - General Pollutant Emission Limiting Standards

Federal NSPS Provisions

NA

Other Draft Permit Requirements

NA

3. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions. Lora Webb is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting Lora Webb or Diana M. Lee, P.E. Chief, Air Permitting, at (813) 627-2600 or by email at webbl@epchc.org or lee@epchc.org.



COMMISSION

Kevin Beckner
Victor D. Crist
Ken Hagan
Al Higginbotham

Lesley "Les" Miller, Jr.
Sandra L. Murman
Stacy White

DIVISION DIRECTORS

Legal & Admin.	Richard Tschantz, Esq.
Air Management	Jerry Campbell, P.E.
Waste Management	Hooshang Boostani, P.E.
Water Management	Sam Elrabi, P.E.
Wetlands Management	Kelly Bishop, P.G.

EXECUTIVE DIRECTOR

Janet L. Dougherty

PERMITTEE

Darling Ingredients Inc.
1001 Orient Road
Tampa, FL 33619

Air Permit No.0570163-009-AC
Permit Expires: January 30, 2017

Authorized Representative:
Tim Garriss, Regional Vice President

Minor Air Construction Permit
Venturi Scrubber Replacement

PROJECT

This is the final air construction permit, which authorizes the replacement of the existing 10,000 ACFM SCP Control, Inc. venturi scrubber with a new equivalent venturi scrubber. The proposed work will be conducted at the existing facility which is a rendering operation and is categorized under Standard Industrial Classification Code No. 2077 – Animal and Marine Fats and Oils. The existing facility is located in Hillsborough County at 1001 Orient Road, Tampa, FL 33619. The UTM coordinates of the facility are 17, 364.1 km East, and 3096.4 km North.

This permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY

Janet L. Dougherty
Executive Director

Environmental Excellence in a Changing World

Roger P. Stewart Center

3629 Queen Palm Drive, Tampa, FL 33619 - (813) 627-2600 - www.epchc.org

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DRAFT PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this written notice of Intent to Issue Air Permit package (including the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the draft permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested, or was sent via mail, before the close of business on the date indicated below to the following persons.

Tim Garris – Darling Ingredients Inc. tgarris@darlingii.com

John L. Crowley, P.E. – Darling Ingredients Inc. jcrowley@darlingii.com

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Clerk

Date

SECTION 1. GENERAL INFORMATION (DRAFT)

FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

Facility ID No. 0570163	
ID No.	Emission Unit Description
003	Rendering Operation (Dupps 200U and 1500 Cookers)

Darling Ingredients Inc. is a rendering facility that processes animal remains, scrap meat, and the interface from used restaurant food grease. The process begins by receiving material by truck. The materials are unloaded onto the ground and a front-end loader transfers the material into an open pit. Two screw conveyors convey the material from the pit into the two (2) high pressure steam heated cookers.

The cookers are used to separate fat from meat or animal remains and to process restaurant food grease by slow heating and processing of the meat, fat, bone, offal, and grease. Cooker #1 (Dupps Company 200U Supercookor) and Cooker #2 (Dupps Company 1500 Equacooker) have the maximum raw material input rates of 43,440 lbs/hr and 34,000 lbs/hr, respectively, based on a raw material moisture content of 34%.

The cookers are heated by steam from two natural gas fired boilers, rated at 62.76 MMBtu/hr and at 31.38 MMBtu/hr. The boilers are also capable of combusting processed fats from the rendering operation as a backup fuel. Both of the boilers are categorically exempt from permitting pursuant to Rule 62-210.300(3)(a)34., F.A.C. - *Fossil fuel steam generators, hot water generators, and other external combustion heating units with heat input capacity less than 100 million Btu per hour.*

Each cooker has a water-cooled shell and tube condenser to collapse the steam and to control condensable odor emissions generated from the cooking operation. The two water-cooled shell and tube condensers operating in parallel are followed by three scrubbers in series. The scrubbers control the non-condensable odor emissions from the cookers. The scrubbers are a 10,000 acfm Venturi Scrubber, a 10,000 acfm High Intensity Packed Bed Scrubber, and a 50,000 acfm Room Air Scrubber.

The Room Air Scrubber controls the process vapors from the venturi and packed bed scrubbers and the vapors from the processing building. The Room Air Scrubber treats approximately 40,000 acfm of vapors from the processing building and 10,000 acfm from the venturi and packed bed scrubbers. The vapors from the processing building consist of emissions from the feed screws, grinders, control wheels, drainers, centrifuges, screw presses, and other miscellaneous process equipment. Sodium hypochlorite is injected as a scrubbing agent in each of the three scrubbers for odor control. In addition, sodium hydroxide and muriatic acid are used as needed for pH control in the scrubbers.

In addition, the facility operates an odor mitigation system, which consists of atomizing spray nozzles that distribute a mist of odor masking compound around the truck unloading/receiving pit area. In order to mitigate potential odors, all raw materials are required to be processed within 24 hours of receipt unless there is an operational breakdown or plant upset.

The final products from this facility consist of bone meal (crax) and processed fats, which include tallow, yellow grease, brown grease, and poultry fat. These products are sold for use in animal feed applications, chemical manufacturing, and combustion applications. Below is a list of the process and control equipment.

SECTION 1. GENERAL INFORMATION (DRAFT)

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model No.</u>
Cooker #1	The Dupps Company	200U Supercookor
Cooker #2	The Dupps Company	1500 Equacooker
Shell and tube condenser #1	Texas Metal Fabrication Company	T-42
Shell and tube condenser #2	The Dupps Company	12 SS
Venturi Scrubber	10,000 ACFM IES, Inc. or equivalent	40K-304 ss-M-Cs or equivalent
Packed Bed Scrubber	10,000 ACFM GPI Corporation	#4468 60" x 258"
Room Air Scrubber	50,000 ACFM American Fan Co.	BI-490

PROPOSED PROJECT

This permit authorizes the replacement of the existing 10,000 ACFM SCP Control, Inc. venturi scrubber with a new equivalent venturi scrubber.

This project will modify the following emission units:

EU No.	Description
003	Rendering Operation (Dupps 200U and 1500 Cookers)

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

- FW1. Permitting Authority:** The permitting authority for this project is the Environmental Protection Commission of Hillsborough County. The mailing address is 3629 Queen Palm Dr., Tampa, Florida 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.
- FW2. Compliance Authority:** All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Dr., Tampa, Florida 33619.
- FW3. Appendices:** The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
- FW4. Applicable Regulations, Forms and Application Procedures:** Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
- FW5. New or Additional Conditions:** For good cause shown and after notice and an administrative hearing, if requested, the EPCHC may require the permittee to conform to new or additional conditions. The EPCHC shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EPCHC may grant additional time. [Rule 62-4.080, F.A.C.]
- FW6. Construction and Expiration:** The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
- FW7. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but not be limited to, the following: [Rule 62-296.320(4)(c), F.A.C.]**
- A) Maintenance of parking areas and yards.
 - B) Removal of particulate matter from paved areas, buildings and work areas under control of the owner/operator.
- FW8. Modifications:** The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPCHC. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

- FW9.** When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in Rules 62-204, 62-210, 62-212, 62-296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rule 62-297.310(8)(c), F.A.C.]
- FW10.** The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]
- FW11.** If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]
- FW12.** Excess emissions resulting from start-up, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to; and, the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the EPCHC for longer duration. [Rule 62-210.700(1), F.A.C.]
- FW13.** If the permittee is not able to comply with any of the provisions of this permit, in particular, maintenance of the operating parameters of the primary and/or secondary odor control systems, then the permittee shall report the problem to the Environmental Protection Commission of Hillsborough County by telephone or in writing no later than the next business day. [Rule 62-4.070(3), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 003 - Rendering Operation (Dupps 200U and 1500 Cookers)

This section of the permit addresses the following emissions units.

EU No.	Description
003	Rendering Operation (Dupps 200U and 1500 Cookers)

EQUIPMENT

A.1. Equipment Name: The permittee is authorized to install a 10,000 ACFM IES, Inc., venturi scrubber or equivalent. [Rule 62-4.070(3), F.A.C.; and Permit Application Received August 25, 2016]

PERFORMANCE RESTRICTIONS

A.2. Permitted Capacity: As requested by the permittee, in order to limit the potential to emit, the input rates for each Cooker shall not exceed the following raw material processing rates (lbs/hr) while processing fat, bones, offal, and restaurant grease interface: [Rules 62-210.200(PTE) and 62-4.070(3), F.A.C., and Permit No. 0570163-004-AC]

Cooker No.	Pounds/hour
Dupps Company 200U Supercookor (Cooker No. 1)	43,400
Dupps Company 1500 Equacooker (Cooker No. 2)	34,000

A.3. In order to ensure compliance with Specific Condition No. FW10., the following shall apply to this rendering operation: [Rule 62-4.070(3), F.A.C. and Permit No. 0570163-004-AC]

- A) The odor control systems, which include the water-cooled shell and tube condensers and scrubbers, must be properly maintained, and in operation whenever the rendering process is in operation. The odor control system shall be started and fully operational prior to feeding raw materials into the process.
- B) Raw materials shall be restricted to animal by-products and grease.
- C) Raw materials shall be processed as soon as reasonably practicable upon delivery to the facility. If raw materials are not processed within 24 hours after delivery to the facility due to an operational breakdown or plant upset, the permittee shall notify the EPC regarding the operational breakdown or plant upset and the estimated time frame for completing processing of raw materials.
- D) The water in the line returning from either of the two condensers following the cookers shall not exceed 140 °F.
- E) The facility shall properly operate and maintain the odor mitigation system along the truck unloading/receiving pit area.

A.4. Hours of Operation: The hours of operation are not restricted. [Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

A.5. In order to comply with Specific Condition No. A.2, the permittee shall maintain monthly records of operations for the most recent three year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state, or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3) and 62-4.160(14), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 003 - Rendering Operation (Dupps 200U and 1500 Cookers)

- A) Month, Year
- B) Amount of material processed through each cooker (lb/hour)
- C) Rolling twelve month total of B) above

DRAFT

